FastTrak Schedule Report

Overview

Store Name: My Store
Depot Name: My Depot
Delivery Date: 05/05/2024
Vehicles: 5
Packages: 275
Standard Priority: 155
Express Priority: 120

Schedule Profile

Auto-Minimise (Y/N): N
Optimisation Profile: Eco
Time Window: 8 hours
Estimated Time Per Delivery: 3 minutes

Vehicles

#	Vehicle	Packages	Load Utilisation (kg)	Volume (m³)	Distance (mi)	Time (hrs)
1	VE01ABC	57	946/1000 (95%)	15.0/15.0 (100%)	50.9	5.40
2	VE02ABC	55	796/1000 (80%)	15.0/15.0 (100%)	68.1	6.15
3	VE03ABC	55	947/1000 (95%)	15.0/15.0 (100%)	87.9	7.12
4	VE04ABC	55	841/1000 (84%)	15.0/15.0 (100%)	76.0	6.53
5	VE05ABC	53	756/1000 (76%)	15.0/15.0 (100%)	65.2	5.90

Performance

Total	**Average Per Vehicle**	**Average Per Package**
Packages: 275	Packages: 55.00	Packages: n/a
Driving Time: 31.10 hours	Driving Time: 6.22 hours	Driving Time: 0.11 hours
Distance: 347.99 miles	Distance: 69.60 miles	Distance: 1.27 miles
Weight: 4286.00 kg	Weight: 857.20 kg	Weight: 15.59 kg
Volume: 74.90 m³	Volume: 14.98 m³	Volume: 0.27 m³

Efficiency Metrics

Higher efficiency scores indicate better performance. A utilisation score of 100 indicates that the vehicle is being used to its full capacity.

Time Efficiency (TE) = Number of Packages / Time (minutes) * 100
Distance Efficiency (DE) = Number of Packages / Distance (miles) * 100
Weight Utilisation (WU) = Total Weight (kg) / Load Capacity (kg) * 100
Volume Utilisation (VU) = Total Volume (m³) / Volume Capacity (m³) * 100

#	Vehicle	TE	DE	WU	VU
1	VE01ABC	17.60	112.09	94.60	100.00
2	VE02ABC	14.92	80.79	79.60	99.96
3	VE03ABC	12.88	62.59	94.70	99.81
4	VE04ABC	14.03	72.39	84.10	99.86
5	VE05ABC	14.96	81.29	75.60	99.67
Average		14.74	79.03	85.72	99.87

Algorithm Information

The algorithm configuration has been selected as:

Initialisation: KMeans
Optimisation: None

Network State

Vehicles available: 5
Vehicles used: 5
Packages pending: 900
Packages scheduled: 275
Total Time Window: 40 hours

Solution Statistics

Initialisation	Optimisation	Packages	Time (hours)	Distance (miles)	TE	DE	WU	VU
KMeans	**None**	**275**	**31.10**	**347.98**	**14.74**	**79.03**	**85.72**	**99.86**